

INSTALLATION INSTRUCTIONS PQ-1702-05-gb

Product Group	PQ: PQ Analyzers
Product	MAVOWATT 230/240/270
Subject/Application	Firmware Update
Users	

Background/Task

In order to implement functional extensions or improvements, the PQ Analyzers of the MAVOWATT 2XX family have the option of installing a firmware update via their USB interface.

To check whether an update is possible / necessary, compare the version numbers of the firmware installed in the device and the available firmware. A newer firmware has a higher version number.

The version installed in the device is displayed in the INSTRUMENT STATUS table when you tap






on the device icon in the upper icon bar. The number of the program part HP is decisive.

The latest firmware is available for download on our website in the myGMC Portal; see below.

INSTRUMENT STATUS	
Model	MAVOWATT 240
Serial #	MW240AIA030
MP, OS, HP, BP Version	V 1.3.6, V1.3.12, V1.3.16 , 1.0.4
MP, OS, HP, BP Status	good, good, good, good
Input Status	Unknown
Line Synch Status	no sync.
External Memory	None available
IP Address	0.0.0.0
MAC Address	00:01:32:00:11:26

The following description describes the procedure for updating the device.

Required Equipment

	MAVOWATT 230 or 240 or 270 three-phase energy and power disturbance analyzer
	PC/Notebook with USB port and Internet access
	USB Memory Stick 256MB – 32GB, FAT32 formatted

Preparations

Important Notes:

- The installation of a firmware update by the user always takes place at his own risk! When for example the firmware update is interrupted or a wrong firmware file is installed, the device may become unusable and must be returned to the factory for repair (no warranty!).
- It is strongly recommended to operate the device via its power adapter from mains supply when updating the firmware!
- Do not switch off the device during the firmware installation!

- During the firmware update, all recorded data stored in the device may be lost irretrievably! If necessary, back up this data to an external storage medium or PC prior to the update.

Get the latest firmware

- Make an internet connection with your PC / Notebook and visit our website www.gossenmetrawatt.com.
- If you have not already done so, create an account in our myGMC portal and register your MAVOWATT PQ analyzer; Otherwise simply log in there:
<https://www.gossenmetrawatt.com/gmc/english/seiten/welcometomygmc.htm>
- In the list of your registered products, click the **Show** details button for your MAVOWATT 230, 240, 270. This brings you to the page with the download link of the latest device firmware (packed into a zip archive). Click on this link to download the zip file and save it to your PC.
- Now open the zip file and unpack the included firmware file "firmware.hpk" to the root directory of the connected USB memory stick.

Firmware Installation

Step 1:

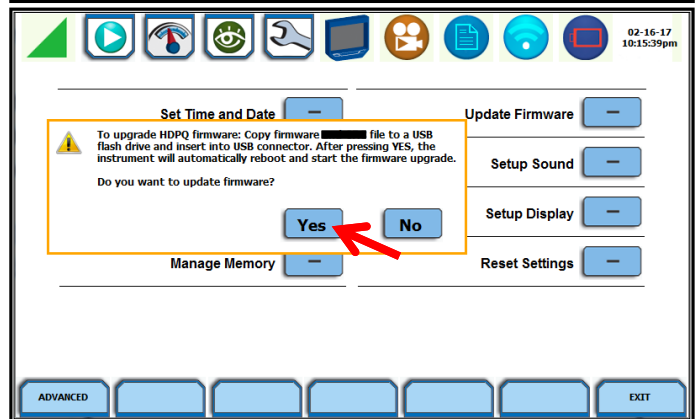
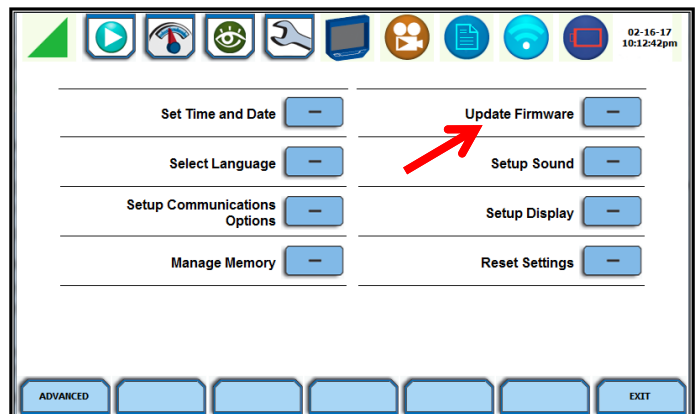
- Connect the device to the mains supply via its power adapter and switch it on.
- Connect the USB memory stick with the firmware file to the USB port of the device.
- On the Home panel or the Start page, tap the

Setup Instrument icon .

Note: By tapping the company logo in the upper left, you can always access the Home panel or the Start page.

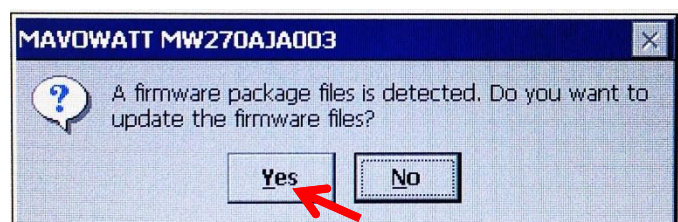
- On the instrument setup parameters page, select **Update Firmware**.
- ⇒ A safety prompt appears on the display.
- Tap **Yes** to start the update process.
- ⇒ The device restarts automatically and initiates the firmware installation. Go to Step 2.

If you tap **No**, you can return to the Instrument Settings panel without any changes.



Step 2:

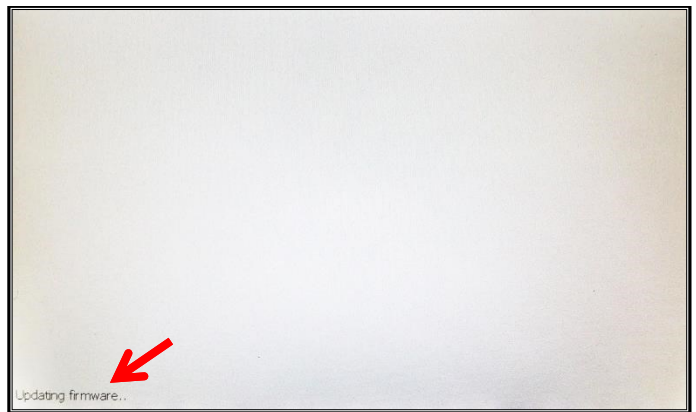
- ⇒ Once the instrument restarts, a message indicating that a firmware package file has been detected is displayed.
- Tap **Yes** to use the file to update the instrument firmware. Proceed to Step 3.
- Tap **No** to return to the Instrument Settings menu without making any firmware changes.



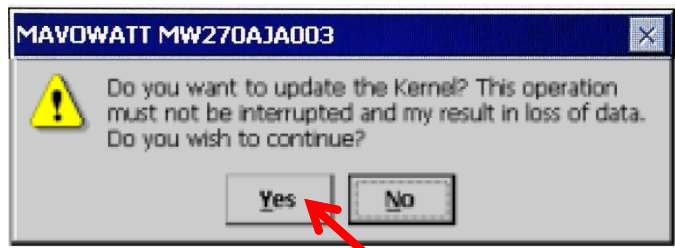
Step 3:

- ⇒ While the firmware is being loaded, a corresponding message appears in the lower left corner of the display.

Do not turn the power off or remove the USB device while the firmware update is in progress!


Step 4:

- ⇒ If required, a second prompt may come up to ask if the low-level Kernel will be updated.
- Always Press **Yes** to update the Kernel.
- ⇒ Once the Kernel update is done, the Home screen is displayed. Proceed to Step 5.



Step 5:

- ⇒ Once the instrument returns to the Home screen, a message at the bottom of the screen reports that the measurement firmware is being copied.

NOTE: It is very important to not interrupt this process.

- ⇒ Once the firmware update is complete, the instrument automatically restarts and begins operating with the new firmware version.


Step 6:

- By calling up the INSTRUMENT STATUS list again via icon , you can use the new firmware version number to check the successful completion of the update.

Note:

If the latest firmware version you have installed does not appear correctly in this screen, try to reload the update firmware. First, power the instrument "OFF" and back "ON" and repeat steps 1 through 6 of this procedure.

INSTRUMENT STATUS	
Model	MAVOWATT 240
Serial #	MW240AIA030
MP, OS, HP, BP Version	V 2.0.5, V2.0.8, V2.0.15 , V2.0.4
MP, OS, HP, BP Status	good, good, good, good
Input Status	Unknown
Line Synch Status	no sync.
External Memory	543.316 MB available
IP Address	0.0.0.0
MAC Address	00:01:32:00:0f:0f